10/562866IAP15 Rec'd PCT/PTO 229 DEC 2005

Attorney Docket No.72294-82303

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

MORÉIN et al

International Application No.:

PCT/SE2004/001038

International Filing Date:

July 7, 2004

Title:

QUIL A FRACTION WITH LOW TOXICITY AND USE THEREOF

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents U.S. Patent and Trademark Office P.O. Box 1450 Alexandra Virginia, 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. A copy of an International Search Report citing the five attached references are enclosed. To assist the Examiner, a form PTO/SB/08A and PTO/SB/08B listing the documents are attached. It is respectfully requested that an Examiner-initialed copy of this form be returned to the undersigned.

The enclosed documents are in English. The filing of this Information Disclosure Statement shall not be construed as a representation that a prior art search has been made. Additionally, the filing of this Information Disclosure Statement shall not be construed to be an admission that each of the references submitted herewith is in fact prior art with respect to the present application, or that each of the references is considered to be material to patentability as defined in 37 C.F.R. §1.56(b).

10/562866 IAP15 Rec'd PCT/PTO 29 DEC 2005

Attorney Docket No.72294-82303

This submission is being filed prior to the receipt of the first office action, therefore, no additional fees for the submission of the IDS are required.

Respectfully Submitted,

December 27, 2005

Olivia Tolan, Reg. No. 45,161

ALBIHNS STOCKHOLM AB Box 5581 SE-114 85 Stockholm, Sweden tel +46 (0) 8 5988 7200 fax +46 (0) 8 5988 7300 Customer No. 26288

IAP15 Rec'd PCT/PTO 29 DEC 2005

PTO/SB/08A (07-05)
Approved for use through 07/31/2006. OMB 0651-0031
J.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

| Unde | er the Pa | perwork Reduc | tion Act | of 1995. | no perse | ons are required to re | econord to a collection of informa- | tion unloce it o | .S. DEPARTMENT OF COMMERCE contains a valid QMB control number. | | | |
|------------------------------|------------------|---------------|----------|----------|----------|--|-------------------------------------|--|---|---|----------|--|
| Substitute for form 1449/PTO | | | | | | | Complete if Known 11/562 | | | | | |
| | | | | | | | Application Number | PCT/SE2004/001038 | | | U | |
| 18 | IEO | RMATIC | ON F | Nec | 10 | SHIDE | Filing Date | July 7, 20 | July 7, 2004 | | | |
| | | | | | | | First Named Inventor | MORÉIN et al | | | | |
| S | TAT | EMEN | T BY | AP | PLIC | CANT | Art Unit | | | | | |
| | | (Use as many | y sheets | as nece | essary) | | Examiner Name | | | | | |
| Sheet | Sheet 1 of 2 | | | | | | Attorney Docket Number | nber 72294-82303 | | | | |
| | | | | | | | | | | _ | | |
| | | | | | | | T DOCUMENTS | | | _ | | |
| Examiner Initials* | Doddinont runnet | | | | | Name of Patentee Applicant of Cited Doc | | Pages, Columns, Lines, Where Relevant Passages or Relevant | | | | |

| U. S. PATENT DOCUMENTS | | | | | | | | |
|------------------------|--|--|--------------------------------|--|--|--|--|--|
| Examiner Initials* | Cite No. ¹ | Document Number Number-Kind Code ^{2 (f known)} | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear | | | |
| | | US- | | | 3 | | | |
| | 1 | 03- | | | | | | |
| | | US- | | | | | | |
| | | US- | | | | | | |
| | <u> </u> | US- | | | | | | |
| | ļ · · · · · | US- | | | | | | |
| | | US- | 1 | | | | | |
| | † | US- | _ | · · · · · · · · · · · · · · · · · · · | | | | |
| | † | US- | | | | | | |
| | i | US- | | | | | | |
| | | US- | | | | | | |
| | 1 | US- | | | | | | |
| | | US- | | , | | | | |
| | 1 | US- | | | | | | |
| | | US- | | | | | | |
| | | US- | | | | | | |
| | | US- | | | | | | |
| | | US- | | | | | | |
| | | US- | | | | | | |
| | † | US- | 1 | | - | | | |

| Examiner Initials* | Cite No.1 | Foreign Patent Document | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages | |
|-----------------------|--------------|---|------------------|---|---|---|
| muais | 140. | Country Code ³ "Number ⁴ "Kind Code ⁵ (if known) | MM-DD-YYYY | Applicant of Cited Document | Or Relevant Figures Appear | Т |
| | | WO 9611711 | 04-25-1996 | | | |
| | | WO 9003184 | 04-05-1990 | MORÉIN et al | | |
| | | | | | | L |
| | | | | | | Ļ |
| | | | | | | L |

| Examiner | Date | |
|-----------|------------|--|
| Signature | Considered | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

IAP15 Rec'd PCT/PTO 29 DEC 2005

PTO/SB/08B (07-05) Approved for use through 07/31/2006. OMB 0651-0031 rademark Office; U.S. DEPARTMENT OF COMMERCE

| Und | ler the Paperwork Red | uction Ad | t of 1995, no persons ar | e required to respond to a collection | of information unless it contains | velide OMB control number. | · · |
|-------|-----------------------|-----------|--------------------------|---------------------------------------|-----------------------------------|----------------------------|-----|
| | e for form 1449/PTO | | | | Complete if Known | AUIJOC | 366 |
| | | | | Application Number | PCT/SE2004/001038 | | (|
| INFO | DRMATION | DIS | CLOSURE | Filing Date | July 7, 2004 | | 1 |
| STA | TEMENT B | BY A | PPLICANT | First Named Inventor | MORÉIN et al | · · · | 1 |
| | (Use as many she | ote oe e | | Art Unit | | | |
| | (Use as many sne | ers as II | acessary) | Examiner Name | | | 1 |
| Sheet | 2 | of | 2 | Attorney Docket Number | 72294-82303 | | 1 |

| | | NON PATENT LITERATURE DOCUMENTS | |
|-----------------------|--------------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | | JOHANSSON et al., Iscoms with different quillaja saponin components Vaccine, 1999, Vol. 17, 2894-2900 | |
| | | BEHBOUDI et al. Quillaja Saponin Formulations that Stimulate, Scand. J. Immunol., 1999, Vol. 50, 371-377 | |
| | | EKSTRÖM et al. Iscom and iscom-matrix enhance by intranasal route, Vaccine, 1999, Vol. 17, 2690-2701 | |
| | | · | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Examiner | | Date | | |
|-----------|--|------------|--|--|
| Signature | | Considered | | |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

² Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.